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III. GUAGING PROMOTED, *Being an* Appendix to Stereomatical Propoſitions, *formerly publiſhed by* Rob. Anderſon. *Printed for* Joſh. Coniers *1669. in* Octavo.

IN this ſmall Tract the Author reduceth his former Doctrine of *Gauging* to farther Practice, and illuſtrateth the ſame by Examples.

And firſt he ſuppoſeth the *Axis* of a *Pyramid*, *Cone*, *Sphere*, *Parabolical*, and *Hyperbolical Conoid*, and of a Figure of different *Baſes*, which he calls a *Fruſtrum* of a *Priſme*, which if round, may reſemble a Drinking Cup like an Horn, having its top ſqueezed into an *Elliptick* form, and the bottom remaining either a Circle, or be likewiſe compreſs'd; the ſaid *Axis* to be divided into equal Segments, and Plains paſſing through thoſe Segments erect to the *Axis*; to divide the above-mention'd Solids into divers Portions or Rings: and upon theſe Foundations, *viz.* That in the *Parabolical Conoid* the *ſecond* differences of the Solid Contents of the whole Figures ſo divided are equal; but in the reſt of theſe Solids their *third* Differences are equal: he hath ſuted his Examples to the *Axes* cut by the ſaid Plains at 3 Inches diſtance from each other, ſhewing firſt the nature of the differences in hand, and then ſome eaſie wayes to attain a firſt, ſecond, and third difference; and how out of them to compute the ſeveral Capacities ſought by Additions of Differences plac'd in ſeveral Columns. Laſtly, He gives directions for the more eaſie Calculation of the ſecond Segments of the *Sphere* and *Spheroid*.

But we muſt not omit to take notice, that this Author, ſpeaking *pag.* 23. of ſuch Elliptick Solids, whoſe *Baſes* are unlike, aſſerts, That every ſuch *Elliptick Solid* is equal to the *Fruſtrum* or *Truncus* of an *Hyperbolick Conoid*, the Circular *Baſes* whereof are equal to the *Elliptick Baſes* of the Solid propos'd; and the Height of the one *Fruſtrum* equal to the Height of the other: the Invention and Demonſtration whereof argues good Knowledge in Geometry.

ERRAT. in *N°.* 46.

P. 928. l. 1. r. *punctum* D *in* B, *ib.* l. 28. r. *fortiſſime omnium agat.*

LONDON,

Printed by *T. N.* for *John Martyn* Printer to the *Royal Society*, and are to be ſold at the *Bell* a little without *Temple-Bar*, 1669.